

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: GRYAZNOV ET AL.

APPLICATION No.: 10/578,530

FILED: May 3, 2006

FOR: RNA AMIDATES AND THIOAMIDATES FOR  
RNAI

EXAMINER: TO BE ASSIGNED

ART UNIT: 1600

CONF. NO: 5144

**Information Disclosure Statement Within Three Months of  
Application Filing or Before First Action – 37 C.F.R. § 1.97(b)**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**A. Timing of Submission**

This information disclosure is being filed within three months of the filing date of this application or date of entry into the National Stage of an International Application or before the mailing date of a first Office Action on the merits or before the mailing date of a first Office Action on the merits after the filing of a Request for Continued Examination under 37 CFR §1.114, whichever occurs last (37 CFR 1.97(b)(4)). The references listed on the enclosed Form PTO-1449 (modified) may be material to the examination of this application; the Examiner is requested to make them of record in the application.

**B. Cited Information**

- ☒ Copies of references 1-5 are issued patent(s) and published application(s) and are not included (see C.F.R. § 1.98(a)(2)(ii)).
- ☒ Copies of references 6-13 are enclosed.

**C. Effect of Information Disclosure Statement (37 C.F.R. § 1.97(h))**

This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the cited information is, or

is considered to be, material to patentability. In addition, applicant does not admit that any enclosed item of information constitutes prior art to the subject invention and specifically reserves the right to demonstrate that any such reference is not prior art.

**D. Fee Payment**


No fees are believed due because this Information Disclosure Statement is being filed before the mailing date of the first Office Action. However, should the Commissioner determine that fees are due in order for this Information Disclosure Statement to be considered, the Commissioner is hereby authorized to charge such fees to Deposit Account No. 50-2207.

**E. Patent Term Adjustment (37 C.F.R. § 1.704(d))**

- ☐ The undersigned states that each item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this statement. 37 C.F.R. § 1.704(d).

Respectfully submitted,  
Perkins Coie LLP

Date: 12-14-2006

  
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LeeAnn Gorthey  
Registration No. 37,337

**Correspondence Address:**

Customer No. 22918  
Perkins Coie LLP  
P.O. Box 2168  
Menlo Park, California 94026  
(650) 838-4300

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Form PTO-1449 (Modified) (Use several sheets if necessary)				<b>COMPLETE IF KNOWN</b>	
				Application Number	10/578,530
				Confirmation Number	5144
				Filing Date	May 3, 2006
				First Named Inventor	Gryaznov <i>et al.</i>
				Group Art Unit	1600
Sheet 1 of 1				Examiner Name	To be Assigned
				Attorney Docket No.	38797-8016.US00

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
	1.	2004/0053875		Kruetzer, Roland <i>et al.</i>	3/18/04	
	2.	2003/0027783		Zernicka-Goetz, Magdalena <i>et al.</i>	2/6/03	
	3.	2002/0162126		Beach, David <i>et al.</i>	10/31/02	
	4.	2002/0114784		Li, Yin-Xiong <i>et al.</i>	8/22/02	
	5.	2002/0086356		Tuschl, Thomas <i>et al.</i>	7/4/02	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.		T
	6.	International Search Report from PCT/US04/032780 Published as WO05/047506 A1		
	7.	Bertrand <i>et al.</i> , "The Expression Cassette Determines the Functional Activity of Ribozymes in Mammalian Cells by Controlling Their Intracellular Localization", <i>RNA</i> , 3:75-88 (1997).		
	8.	Elbashir <i>et al.</i> , "Functional anatomy of siRNAs for mediating efficient RNAi in <i>Drosophila melanogaster</i> embryo lysate", <i>Embo Journal</i> , 20(23):6877-6888 (2001).		
	9.	Good <i>et al.</i> , "Expression of Small, Therapeutic RNAs in Human Cell Nuclei", <i>Gene Therapy</i> , 4:45-54 (1997).		
	10.	Gryaznov S M: "Oligonucleotide N3'->P5' phosphoramidates as potential therapeutic agents" <i>Biochimica et Biophysica ACTA</i> , 1489(1):131-140 (1999).		
	11.	Matray <i>et al.</i> , <i>Nucleic Acids Research</i> , 27(20):3976-3985 (1999).		
	12.	McCaffrey <i>et al.</i> , "RNA Interference in Adult Mice", <i>Nature</i> , 418:38-39 (2002).		
	13.	Wianny <i>et al.</i> , "Specific Interference with gene Function by Double-Stranded RNA in Early Mouse Development", <i>Nature Cell Biology</i> , 2:70-75 (1999).		

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).	